PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference B0877.70027	FOR FURTHER ACTION as well	see Form PCT/ISA/220 l as, where applicable, item 5 below.
International application No. PCT/US04/15443	International filing date (day/month/y 17 May 2004 (17.05.2004)	(Earliest) Priority Date (day/month/year) 29 January 2004 (29.01.2004)
Applicant BROWN UNIVERSITY		
This international search report consists. It is also accompani 1. Basis of the Report a. With regard to the language, the language in which it was filed, The internation furnished to this Autiliary. With regard to any nucleon. Certain claims were found. Unity of invention is lackly with regard to the title, the text is approved as sufficiency.	ts of a total of sheets. ed by a copy of each prior art documer the international search was carried out on unless otherwise indicated under this ite hal search was carried out on the basis of thority (Rule 23.1(b)). otide and/or amino acid sequence discland unsearchable (See Box No. II) king (See Box No. III)	nt cited in this report. n the basis of the international application in the
may, within one month fi	hed according to Rule 38.2(b), by this A	authority as it appears in Box No. IV. The applicant nal search report, submit comments to this Authority.
as suggested by the	be published with the abstract is Figure I the applicant. is Authority, because the applicant failed is Authority, because this figure better cl	I to suggest a figure.
b. none of the figures is to b	pe published with the abstract.	

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/15443

	OF CURIECT MATTER			
	SIFICATION OF SUBJECT MATTER : A61F 2/06, 2/00, 2/02, 13/00; A61M 5/00; C12	2N 5/00, S	5/06, 5/08	j
IPC(7)		1. 433134	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
US CL	: 623/1.1, 1.42, 11.11, 25.73, 424/422, 55.1, staternational Patent Classification (IPC) or to both nation	onal classi	fication and IPC	
	S SEARCHED			
B. FIELD	5 SEARCHED	classifica	tion symbols)	
Minimum doc	umentation searched (classification system followed by	325 366·	604/27	
U.S. : 62	3/1.1, 1.42, 11.11, 23.75; 424/422, 93.1, 93.7; 435/	J2J, J00,	00 11 2 1	1
D	n searched other than minimum documentation to the e	xtent that	such documents are included in	the fields searched
Documentation	Pub, EPO, JPO, Derwent			
USF at, USF G	1 40, 21 0, 11 1,			
			i i i i i i i i i i i i i i i i i i i	ch terms used)
Electronic dat	a base consulted during the international search (name	of data ba	se and, where practicable, sear	cii (ciiiis uscu)
Medline, CAp	olus, Biosis			
	•			
5 POOT	IMENTS CONSIDERED TO BE RELEVANT			
	Citation of document, with indication, where app	propriate.	of the relevant passages	Relevant to claim No.
Category *	Transport on the state of the marrow.	-derived e	ndomental progention cen	2, 11, 13, 14, 27-30,
X	significance in angiogenic growth factor induced neov	asculariza	tion in vivo. Exp Hematol.	42
	August 2002, Vol 30. Iss 8, pages 967-972.			
Y	August 2002, Vol 30. 133 6, pages 30.			1-7, 9-17, 21-24, 27-
				30, 39-40, 42
				0 47 01 04 07
Y	US 2003/0007954 A1 (NAUGHTON et al) 09 Januar	y 2003 (0	9.01.2003), whole document	1-7, 9-17, 21-24, 27-
1				30, 39, 40, 42 1, -7, 9-17, 21-24, 27-
Y	US 6,340,588 (NOVA et al) 22 January 2002 (22.01.	.2002), co	lum 74, lines 4-15.	30, 39, 40, 42
				1-43
Α	RAFII et al. Therapeutic stem and progenitor cell tra	nsplantatio	on for organ vascularization	1-45
]	Land responsion Nature Medicine June 2003, Vol.	9. No. o,	pages 102-112.	1-43
A	RAFII et al. Characterization of hematopoietic cells a	arising on	the textured surface of left	
	Lucatricular assist devices. Ann Thorac Surg. 1995, V	'01. OU, pa	ges 1027-1032.	1-43
Α	RAFII et al. Efficient mobilization and recruitment o	i marrow-	ogenic factors. Gene	
	hematopoietic stem cells by adenoviral vectors expres	SSILIE GILEI	ogethe factors. Come	
	Therapy. 2002, Vol. 9, pages 631-641.			
1				
1	·			<u> </u>
-			See patent family annex.	
Further	r documents are listed in the continuation of Box C.		later document published after the int	amational filing date or priority
· s	Special categories of cited documents:	"T"	date and not in conflict with the appli	cation but cited to understand the
	at defining the general state of the art which is not considered to be		principle or theory underlying the inv	vention
"A" document	ular relevance	"X"	document of particular relevance; the	claimed invention cannot be
1	pplication or patent published on or after the international filing date	^	considered novel or cannot be consid	ered to involve an inventive step
1			when the document is taken alone	
"L" documen	nt which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	"Y"	document of particular relevance; the	e claimed invention cannot be
establish specified			considered to involve an inventive ste combined with one or more other suc	en when the document is
1 .	nt referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in t	he art
i		40.7	document member of the same paten	
"P" documer	nt published prior to the international filing date but later than the	" &"	document memoer of the same pater	
	date claimed	Date of	mailing of the international sea	rch report
Date of the a	actual completion of the international search	Date of	28 FEB 2005	•
10 Decembe	er 2004 (10.12.2004)			THOMAS
Name and m	nailing address of the ISA/US	Authori	zed officer DEBORAH A.	
Ma	ail Stop PCT, Attn: ISA/US	Michae	PARALEGAL S Nityshyn	PEUALIS!
Co	ommissioner for Patents	i		1800 prit
P.0	O. Box 1450 exandria, Virginia 22313-1450	Telepho	ne No. 571-272-1600	•
Faccimile N	exandria, Viigilia 22313-1430 io. (703) 305-3230	1		
Lacounic IA	0. (100) 500			

INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/15443

(Contin	uation) DOCUMENTS CONSIDERED TO BE RELEVANT	Relevant to claim No.
ategory *	Citation of document, with indication, where appropriate, of the relevant passages	1-43
A	HATTORI et al. Vascular Endothelial Growth Factor and Angiopoietin-1 Stimulate Postnatal Hematopoiesis by Recruitment of Vasculogenic and Hematopoietic Stem Cells, J. Exp. Med. May 2001, Vol. 193. No. 9, pages 1005-1014	1.42
Α	YOUNG et al. VEGF increases engraftment of bone marrow derived endothelial progenitor cells (EPCs) into vasculatrure of newborn murine recipients. PNAS. September 2002, Vol. 99. No. 18, pages 11951-11956.	1-43
A	TATEISHI-YUYAMA et al. Therapeutic angiogensis for patients with limb ischaemia by autologous transplantation of bone-marrow cells: a pilot study and a randomized controlled trail. Lancet. August 2002, Vol. 360, pages 427-435.	1-43
Α .	SHI et al, Evidence for Circulating Bone Marrow-Derived Endothelial Cells. Blood. July 1998, Vol. 92. No. 2, pages 362-367.	1-43
		,

Form PCT/ISA/210 (continuation of second sheet) (January 2004)